

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2014

Reclamation District No. 2101 Blewett

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	2
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2101_01_s_2013_2				
Action/Comments					
Inspector Comments: The LMA has the O&M Manual available electronically.					

No Photos

LM Start		Rating **	A	Issue No.	4
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2101_01_s_2013_4				
Action/Comments					
Inspector Comments: LMA has emergency supplies on site at the warehouse.					

No Photos

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2101_01_s_2013_5				
Action/Comments					
Inspector Comments: LMA is current on flood fight training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.04	Rating **	M	Issue No.	12
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657648 °	37.657648 °
				-121.253812 °	-121.253812 °
DWR ID	DWR_RD2101_01_s_2012_12				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_12_20141001_00005.jpg



View of rodent holes on waterward slope, facing upstream.

LM Start	0.07	Rating **	M	Issue No.	16
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.657811 °	37.657811 °
				-121.253269 °	-121.253269 °
DWR ID	DWR_RD2101_01_s_2013_16				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Continue rodent extermination and backfilling the rodent burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_16_20141029_00031.jpg



View of rodent burrows on the landside levee slope.

LM Start	0.16	Rating **	M	Issue No.	19
LM End	0.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.656827 °	37.656827 °
				-121.252150 °	-121.252150 °
DWR ID	DWR_RD2101_01_s_2012_19				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.70	Rating **	U	Issue No.	26
LM End	0.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.659907 °	37.659907 °
				-121.244219 °	-121.244219 °
DWR ID	DWR_RD2101_01_s_2013_26				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_26_20141001_00015.jpg



View of the rodent burrows on the waterside levee slope.

LM Start	0.75	Rating **	M	Issue No.	11
LM End	0.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.659705 °	37.659705 °
				-121.243306 °	-121.243306 °
DWR ID	DWR_RD2101_01_f_2012_11				
Action/Comments					
Trim trees to at least five feet above ground level.					
Inspector Comments: Trim tree to allow access and visibility.					

Photo 1 of 1 : FA_2014_RD2101_326_11_20141001_00004.jpg



View of tree branches obstructing waterside slope.

LM Start	0.80	Rating **	C	Issue No.	22
LM End	0.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.659302 °	37.659302 °
				-121.242875 °	-121.242875 °
DWR ID	DWR_RD2101_01_s_2012_22				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	0.88	Rating **	M	Issue No.	3
LM End	0.88	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.658663 °	37.658663 °
				-121.241750 °	-121.241750 °
DWR ID	DWR_RD2101_01_s_2012_3				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_3_20141001_00002.jpg



11/02/2011 Active rodent burrow.

LM Start	1.03	Rating **	N	Issue No.	33
LM End	1.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.656745 °	37.656745 °
				-121.241104 °	-121.241104 °
DWR ID	DWR_RD2101_01_f_2014_33				
Action/Comments					
Tree stumps.					

Photo 1 of 1 : FA_2014_RD2101_326_33_20141029_00033.jpg



View of the tree stump at the waterside levee toe.

LM Start	1.09	Rating **	C	Issue No.	23
LM End	1.09	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.655688 °	37.655688 °
				-121.241202 °	-121.241202 °
DWR ID	DWR_RD2101_01_s_2012_23				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	1.62	Rating **	A/W	Issue No.	13
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.651555 °	37.651555 °
				-121.234319 °	-121.234319 °
DWR ID	DWR_RD2101_01_s_2012_13				
Action/Comments					
Pipe					
Inspector Comments: Pipe penetrates through levee. Closure valve on water side slope.					

Photo 1 of 1 : FA_2014_RD2101_326_13_20141001_00006.jpg



Photo of pump in background and CMP riser with valve in foreground.

LM Start	1.91	Rating **	U	Issue No.	1
LM End	2.00	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.650259 °	37.650259 °
				-121.228961 °	-121.228961 °
DWR ID					
Action/Comments					
Inspector Comments: 07/17/2014: No significant change observed. 09/20/2013: Site has been visited. There are signs of further erosion development along the levee slope and toe. 07/18/2012: The erosion has further developed toward levee crown. Vegetation has been removed. 08/18/2011: The erosion progressed significantly during the past flood season. The levee toe along the erosion site was washed away, and the erosion has cut the levee structure up to the point about 1/3 of the levee slope. The scarp height is approximately 17 feet. Very dense vegetation and trees are visible. 10/19/2010: No significant change observed on site. Remaining levee berm topsoil is of silty sand mixture. The erosion is near the downstream transition. An eddy has formed, and has scoured away a 100-foot section of the bank, possibly encroaching into the levee prism. Vegetation on site includes willows, oak, and cotton wood located from the bench to the toe. On the landside are rows of corn crop. 08/05/2010: Recommended for Repair, per CLRO. 2009: Site recommended as annual assessment and monitoring if critical erosion site, per CLRO CES Evaluation 2008 Report; an eddy has formed, eroding bank and intruding into the levee prism; Site # is the same as RM76.3, LM1.89; previously rated "U". 08/30/2007: Recommended for short list of immediate repair sites; silty sand levee material. [2014 Site ID:RD2101U01RM73.92]					

Photo 1 of 1 : SJR2014_RD2101U01RM73.92_1.jpg



Upstream view of the erosion.

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Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.39	Rating **	M	Issue No.	30
LM End	2.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.645785 °	37.645785 °
				-121.226337 °	-121.226337 °
DWR ID	DWR_RD2101_01_s_2012_30				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

Photo 1 of 1 : FA_2014_RD2101_326_30_20141001_00023.jpg



View of levee material removed by rodent activity on landside slope, facing upstream. 05/02/2012

LM Start	2.68	Rating **	C	Issue No.	15
LM End	2.68	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.642815 °	37.642815 °
				-121.229935 °	-121.229935 °
DWR ID	DWR_RD2101_01_s_2014_15				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.88	Rating **	U	Issue No.	27
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640305 °	37.640305 °
				-121.230095 °	-121.230095 °
DWR ID	DWR_RD2101_01_s_2012_27				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Active burrows with squirrels observed. Burrows on both sides of levee.					

Photo 1 of 1 : FA_2014_RD2101_326_27_20141001_00016.jpg



Rodent holes on levee slope hidden by vegetation.

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Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	2.89	Rating **	U	Issue No.	28
LM End	2.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.640134 °	37.640134 °
				-121.230019 °	-121.230019 °
DWR ID	DWR_RD2101_01_s_2012_28				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Numerous rodent holes throughout levee slope.					

Photo 1 of 1 : FA_2014_RD2101_326_28_20141029_00032.jpg



View of numerous rodent holes with bait stations present.

LM Start	2.91	Rating **	M	Issue No.	29
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.639852 °	37.639852 °
				-121.229980 °	-121.229980 °
DWR ID	DWR_RD2101_01_s_2012_29				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					

Photo 1 of 2 : FA_2014_RD2101_326_29_20141001_00021.jpg

View of repaired site, but it appears that erosion is still occurring.
09/25/2012

LM Start	2.91	Rating **	M	Issue No.	29 (cont)
LM End	2.91	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2014_RD2101_326_29_20141001_00022.jpg



Levee slope is being eroded at this location. Repair needed to preserve access road.

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Unit No. 01 San Joaquin River	Left	3.16	10/28/2014 10/28/2014	Maksim Khashchuk

LM Start	3.02	Rating **	M	Issue No.	17
LM End	3.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.638760 °	37.638760 °
				-121.231341 °	-121.231341 °
DWR ID	DWR_RD2101_01_s_2012_17				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Active burrows with rodents present.					

Photo 1 of 1 : FA_2014_RD2101_326_17_20141001_00009.jpg



Numerous burrows present, some already caving in, others are active.

LM Start	3.11	Rating **	M	Issue No.	18
LM End	3.11	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.637943 °	37.637943 °
				-121.232620 °	-121.232620 °
DWR ID	DWR_RD2101_01_s_2012_18				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: Large burrow in crown with no rodents present at time of inspection.					

Photo 1 of 3 : FA_2014_RD2101_326_18_20141001_00010.jpg



11/02/2011 Large burrow in crown.

LM Start	3.11	Rating **	M	Issue No.	18 (cont)
LM End	3.11	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : FA_2014_RD2101_326_18_20141001_00011.jpg



View of the rodent hole in the levee crown. Smaller holes were covered due to crown regrading. 09/25/2012

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LM Start	3.11	Rating **	M	Issue No.	18 (cont)	
LM End	3.11	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			37.637943 °	37.637943 °	
				-121.232620 °	-121.232620 °	
DWR ID	DWR_RD2101_01_s_2012_18					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: Large burrow in crown with no rodents present at time of inspection.						

Photo 3 of 3 : FA_2014_RD2101_326_18_20141001_00012.jpg



05/02/2012 Rodent holes in the levee crown.

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No Photos

View of the rodent burrows on waterside levee slope.

View of the vegetation on the waterside levee slope.

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